

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/650,919	08/29/2003	Hideyuki Kaneko	1188-0115P 7975		
2292	7590 08/15/2005		EXAMINER		
	EWART KOLASCH	ASINOVSKY, OLGA			
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER	
	•		1711		
			DATE MAILED: 08/15/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

H						h
		Application No.	Aş	plicant(s)		
		10/650,919	K	NEKO ET AL.		
Office Action Sur	mmary	Examiner	Ar	t Unit		
		Olga Asinovsky	17			
The MAILING DATE of the Period for Reply	nis communication app	ears on the cover	sheet with the corre	spondence ad	dress	
A SHORTENED STATUTORY THE MAILING DATE OF THIS - Extensions of time may be available under after SIX (6) MONTHS from the mailing of the period for reply specified above is less of the period for reply is specified above, if the period for reply is specified above, if all the period for reply is specified above, if the period for reply within the set or extended any reply received by the Office later than earned patent term adjustment. See 37 (a)	COMMUNICATION. In the provisions of 37 CFR 1.13 ate of this communication. It is than thirty (30) days, a reply the maximum statutory period w period for reply will, by statute to three months after the mailing	36(a). In no event, howev y within the statutory minir vill apply and will expire S , cause the application to	er, may a reply be timely f num of thirty (30) days will IX (6) MONTHS from the r become ABANDONED (3	led be considered timely nailing date of this co 5 U.S.C. § 133).	/. ommunication.	
Status						
1) Responsive to communion 2a) This action is FINAL. 3) Since this application is included in accordance with	2b)⊠ This n condition for allowar	action is non-finance except for form	nal matters, prosec		merits is	
Disposition of Claims						
4)⊠ Claim(s) <u>1-9</u> is/are pendi 4a) Of the above claim(s) 5)□ Claim(s) is/are allo 6)⊠ Claim(s) <u>1-3 and 5-9</u> is/a 7)□ Claim(s) is/are ob 8)□ Claim(s) are subjective.	4 is/are withdrawn from the second se		nent.			
Application Papers						
9) The specification is object 10) The drawing(s) filed on 29 Applicant may not request to Replacement drawing sheet 11) The oath or declaration is	August 2003 is/are: hat any objection to the objection to	a)⊠ accepted or drawing(s) be held ii ion is required if the	n abeyance. See 37 drawing(s) is objecte	CFR 1.85(a). ed to. See 37 CF	FR 1.121(d).	
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made a)⊠ All b)□ Some * c)□ 1.⊠ Certified copies of 2.□ Certified copies of 3.□ Copies of the certified	None of: the priority documents the priority documents fied copies of the prior e International Bureau	s have been receives have been receive the shave been received the state of the sta	ved. ved in Application I ve been received in a)).	No	Stage	
Attachment(s) 1) Notice of References Cited (PTO-892 2) Notice of Draftsperson's Patent Draw 3) Information Disclosure Statement(s) Paper No(s)/Mail Date	ing Review (PTO-948) (PTO-1449 or PTO/SB/08)	5)	nterview Summary (PTC aper No(s)/Mail Date. lotice of Informal Paten other:			
PTOL-326 (Rev. 1-04)	Office Ac	tion Summary	Pa	art of Paper No./Ma	aıı Date 0809	Λ

Part of Paper No./Mail Date 0809

Application/Control Number: 10/650,919 Page 2

Art Unit: 1711

DETAILED ACTION

1. Applicants request to reconsider and reverse the withdrawn status of claim 4 in the restriction requirement has been considered. The argument is that the linking unit Z is only bridging part of the polyolefin P and an X vinyl terminal group in the general formula (I): P-Z-X in claim 1. The linking group Z is claimed under Markush group practice that can be represented by formula (VIII') or (VIII). In Group I, claims 1-3 and 5-9 the linking group Z can be represented by the selected formula (VIII'). Claim 1 of June 07 2005 claims "Z is an ester group (B1) represented by formula (VIII') or a phenylene group (B2) represented by formula (VIII)." The phenylene group (B2) represented by formula (VIII) having a functional group is related to a styrene derivative in claim 4. Claim 4 is depending on claim 1. However, a polyolefin macromonomer in claim 4 having a styrene derivative will require an addition search. In this reason the restriction is still deemed proper and is therefore made FINAL

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Art Unit: 1711

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 3. Claims 1-3 and 5-9 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-11 of copending Application No. 10/797,144 (Pub.No. 2004/0220346A1). Although the conflicting claims are not identical, they are not patentably distinct from each other because the chemical formulation of a polyolefin macromonomer represented by formula (VI) in a multi-branched polymer in claim 5 of Application 10/797,144 is readable in the present claims. The claimed linking group "Z" can be an ester group represented by the formula (VIII'). The claimed "X" is a vinyl group. Polymer P7 in claim 5 of Application 10/797,144 is readable in applicants' claimed P polyolefin. A polyolefin macromonomer (M2) represented by the formula (VI) is a polyolefin chain having an acryloyl or a methacryloyl group at the terminal chain of said polyolefin.
- 4. The difference is that claims 1-11 of Pub. No. 346 discloses a multi-branched polyolefin having a plurality of P1 polymers chain wherein a polyolefin macromonomer (M2) represented by the general formula (VI) can be selected. Claims 1-11 in Pub. No. '346 does not clearly disclose propylene obtained by a coordination polymerization catalyst containing a transition metal compound. However, it would have been obvious to one ordinary skill in the art to consider that propylene is selected and said propylene is produced by a coordination polymerization catalyst containing a transition metal compound because in light of the fact that any olefin monomer and any polymerizable catalyst can be used in the claims 1-11 in Pub. No. '346 for polyolefin polymerization.

Application/Control Number: 10/650,919

Page 4

Art Unit: 1711

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

5. Claims 1-3 and 5-9 are rejected under 35 U.S.C. 103(a) as being obvious over Kaneko et al Pub. No. 2004/0220346.

The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(I)(1) and § 706.02(I)(2). See paragraphs 3-4 above for the explanation. In addition, a polyolefin macromonomer (M2) represented by the formula (VI) in claim 5 of Pub.No. '346 is readable in applicants claimed P polymer.

Application/Control Number: 10/650,919

Page 5

Art Unit: 1711

Kaneko discloses that the olefin polymerization catalyst (see [0139]) used in production of macromonomer (M1) may be any catalyst known in the art. However, reference prefers to use a coordination polymerization catalyst containing compounds of groups 4 to 11 transition metals [0117] and [0198]. Also, propylene alone is preferable olefin [0119]. A method of producing a polyolefin having an acryloyl group or a methacryloyl group at the terminal thereof [0181] and [0182] is readable in the present claim 2. The polyolefin having a functional group such as an unsaturated carboxylic acid can be produced by the presence of the coordination polymerization catalyst containing a transition metal compound used in production of the polyolefin chain P7, column 13, [0198], column 6, [0117], column 9 [0136], [0139], [0144], [0145].

6. It would have been obvious to one ordinary skill in the art to consider that propylene is selected and said propylene is produced by a coordination polymerization catalyst containing a transition metal compound based on the teaching Kaneko in the specification [0198], [0117], [0136], [0139], [0144], [0145], and, thereby, obtain the claimed polyolefin macromonomer having (meth)acryloyl terminal group.

This action is not final.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Olga Asinovsky whose telephone number is 571-272-1066. The examiner can normally be reached on 9:00 to 5:30 pm.

Application/Control Number: 10/650,919 Page 6

Art Unit: 1711

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

າຸ № August 09, 2005 Olga Asinovsky Examiner Art Unit 1711

James J. Seidleck
Supervisory Patent Examirs
Technology Center 1700